

REMARKS

Upon entry of this amendment, claims 33-55 and 57-64 will be pending, of which claims 33, 59, 61, and 63 are independent. Claim 56 has been cancelled. No new matter has been introduced by the above amendments. Reconsideration of the outstanding rejections is respectfully requested in view of the above amendments and the following remarks.

Preliminarily, regarding paragraph 1 of the outstanding Office Action, Applicants note that the Title of the application has been revised.

Applicants gratefully acknowledge the indication by the Examiner of allowable subject matter in claims 38-39, 53, and 56-57. *See* paragraph 4 of the outstanding Office Action. In this regard, Applicants note that claim 56, which featured that the photoluminescent layer comprises one or more at least partially conjugated oligomers and/or polymers, has been incorporated into independent claim 33. Furthermore, Applicants note that not only independent claim 33, but also the remaining independent claims (*i.e.* claims 59, 61, 63) now include that the photoluminescent layer comprises one or more at least partially conjugated oligomers and/or polymers. It is respectfully submitted that none of the references of record in this application, either alone or in combination, teaches or suggests the present independent claims -- much less the claims dependent thereon. Withdrawal of the rejections listed in paragraphs 2 and 3 of the outstanding Office Action is, consequently, respectfully requested.

Regarding the rejections under 35 U.S.C. §112 of claims 35-37, 52, and 54, Applicants have revised the claims and included structural cooperative relationships bearing in mind the Examiner's concerns. It is respectfully submitted that all claims, as amended, are in full compliance with 35 U.S.C. §112.

For any and all of the above reasons, it is respectfully submitted that the present invention is patentable.

Finally, Applicants acknowledge the receipt of a copy of Form PTO-1449 that Applicants submitted on January 3, 2000. It is noted, however, that the Examiner's initials do not appear next to U.S. Patent 4,142,781 listed thereon. Applicants assume that this was an inadvertent

error and that all references have been carefully considered. However, for completion of their records, an additional copy of the Form PTO-1449 with the Examiner's initials next to the listed U.S. Patent is kindly requested.

CONCLUSION

Because all objections and rejections have been addressed and overcome, it is respectfully submitted that the application is in condition for allowance and a Notice to that effect is courteously solicited. However, if any questions remain, the Examiner is encouraged to call the undersigned to expedite the prosecution of this application.

Respectfully submitted,

PILLSBURY WINTHROP LLP

By



Paul L. Sharer
Reg. No. 36,004
Tel. No.: (703) 905-2180
Fax No.: (703) 905-2500

PLS/wdw
1600 Tysons Boulevard
McLean, VA 22102
(703) 905-2000

Appendix

APPENDIX TO SHOW CHANGES MADE

IN THE SPECIFICATION

On the top of page 1 of the specification, the Title has been deleted and replaced with:

--

PHOTOLUMINESCENT DISPLAY DEVICES HAVING A PHOTOLUMINESCENT LAYER WITH A HIGH DEGREE OF POLARIZATION IN ITS ABSORPTION, AND METHODS FOR MAKING THE SAME

--.

IN THE CLAIMS

Claim 56 has been cancelled.

Claims 33, 35, 37, 52, 54, 59, 61, and 63 have been amended as follows:

33. (Amended) An optoelectronic display device of high brightness and high contrast comprising at least one thin photoluminescent layer that is characterized in a high degree of polarization in its absorption and that is characterized in an emission which is either polarized or not, wherein

said layer has a thickness of less than about 1 mm and a dichroic ratio in its absorption of more than about 5, and

said thin photoluminescent layer comprises one or more at least partially conjugated oligomers or one or more at least partially conjugated polymers or both.

35. (Amended) A display device according to claim 33, wherein said display device additionally comprises at least one electrooptical light valve,

said photoluminescent layer being located between the viewer and said electrooptical light valve, or

said electrooptical light valve being located between the viewer and said photoluminescent layer, or

said photoluminescent layer being located inside said electrooptical light valve.

37. (Amended) A display device according to claim 33, wherein said device comprises **[at least one]** a polarizer selected from the group consisting of absorbing polarizer, scattering polarizer and reflecting polarizer,
said polarizer being located between said photoluminescent layer and the viewer, or
said photoluminescent layer being located between the viewer and said polarizer.

52. (Amended) A display device according to claim **[33]** 35 that is characterized in that said device **[additionally]** comprises multiple electrooptical light valves.

54. (Amended) A display device according to claim 33 that additionally comprises at least one dichroic mirror, said photoluminescent layer being located between said at least one dichroic mirror and the viewer.

59. (Amended) A method to improve the brightness or contrast or both of an optoelectronic display **[by]** , said method comprising:

(i) **[incorporation of]** incorporating in the optoelectronic display at least one thin, photoluminescent layer that is characterized in a high degree of polarization in its absorption and that is characterized by an emission which is either polarized or not polarized, wherein
said layer has a thickness of less than about 1 mm and a dichroic ratio in its absorption of more than 5, and

said layer comprises one or more at least partially conjugated oligomers or one or more at least partially conjugated polymers or both; and

(ii) causing said layer to emit light by photoexcitation.

61. (Amended) A method to improve the viewing angle of an optoelectronic display **[by]** , said method comprising:

(i) **[incorporation of]** incorporating in the optoelectronic display at least one thin, photoluminescent layer that is characterized in a high degree of polarization in its absorption and that is characterized by an emission which is either polarized or not polarized, wherein
said layer has a thickness of less than about 1 mm and a dichroic ratio in its absorption of more than 5, and

said layer comprises one or more at least partially conjugated oligomers or one or more at least partially conjugated polymers or both; and

(ii) causing said layer to emit light by photoexcitation.

63. (Amended) An optoelectronic display device of high brightness and high contrast or large viewing angle or both obtainable by incorporation of at least one thin photoluminescent layer that is characterized in a high degree of polarization in its absorption and that is characterized in an emission which is either polarized or not, wherein

said layer has a thickness of less than about 1 mm and a dichroic ratio in its absorption of more than about 5, and

said layer comprises one or more at least partially conjugated oligomers or one or more at least partially conjugated polymers or both.

END OF APPENDIX